Listing of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

CLAIMS:

- (Previously Presented) A method, comprising:
 - calculating a course between two or more waypoints;
 - analyzing cartographic data for the course for user identified criteria to avoid;
 - providing an alert signal when the course contains user identified criteria;
 - determining a present location on the course based on a signal from a global positioning system (GPS); and
 - analyzing cartographic data for a predetermined area around the present location for user identified criteria to avoid, wherein the predetermined area has a shape based on a heading.
- (Original) The method of claim 1, wherein calculating the course includes calculating
 the course to avoid the user identified criteria between the two or more waypoints.
- (Original) The method of claim 2, wherein calculating the course includes identifying one or more non-user waypoints on the course.

4. (Original) The method of claim 1, wherein calculating the course include re-

calculating the course to avoid the user identified criteria between the two or more

waypoints when one or more user identified criteria are identified between the two or more

waypoints.

(Canceled)

6. (Previously Presented) The method of claim 1, further including providing an alert

signal when the analyzed cartographic data for the predetermined area around the present

location includes user identified criteria.

7. (Original) The method of claim 1, further including receiving user identified criteria

selected from the group of a predetermined grade, a swamp, a lake, a river, a gorge, a cliff,

ice, composition of path surface, non-wheelchair accessible, ranking value, and a terrain

difficulty level.

8. (Previously Presented) A method for calculating a course, comprising:

analyzing cartographic data between two or more waypoints for user identified criteria to avoid;

performing a route calculation algorithm to calculate a course that includes the two

or more waypoints with a preference to avoid user identified criteria;

determining a present location on the course based on a signal from a global

positioning system (GPS); and

analyzing cartographic data for a predetermined area around the present location

for user identified criteria to avoid, wherein a shape of the predetermined

area is based on a heading.

9. (Original) The method of claim 8, wherein performing the route calculation algorithm

includes re-calculating the course to avoid the user identified criteria between the two or

more waypoints in response to a user input.

10. (Original) The method of claim 8, wherein the course calculated by the route

calculation algorithm further includes identifying one or more non-user waypoints on the

course.

(Canceled)

 (Previously Presented) The method of claim 8, further including providing an alert signal when the analyzed cartographic data for the predetermined area around the present

location includes user identified criteria.

13. (Previously Presented) The method of claim 8, further including receiving user

identified criteria selected from the group of a predetermined grade, a swamp, a lake, a

river, a gorge, a cliff, ice, composition of path surface, non-wheelchair accessible, ranking

value, and a terrain difficulty level.

14. (Previously Presented) A method, comprising:

determining a present location based on a signal from a global positioning system

(GPS); and

analyzing cartographic data for a predetermined area around the present location

for user identified criteria to avoid, wherein a shape of the predetermined

area is based on a heading.

15. (Original) The method of claim 14, further including providing an alert signal when

the analyzed cartographic data for the predetermined area around the present location

includes user identified criteria.

16. (Previously Presented) The method of claim 14, wherein the predetermined area

includes radii extending along the heading from the present location.

17. (Original) The method of claim 16, wherein the radii includes an angle formed from

line segments emanating from the present location.

18. (Original) The method of claim 17, wherein the angle includes selectable values of

greater than 0° degrees to 360° degrees.

19. (Original) The method of claim 16, wherein the radii extend a predetermined

distance along the heading from the present location.

20. (Original) The method of claim 14, further including receiving user identified criteria

selected from the group of a predetermined grade, a swamp, a lake, a river, a gorge, a cliff,

ice, composition of path surface, non-wheelchair accessible, ranking value, and a terrain

difficulty level.

21. (Previously Presented) A method, comprising:

determining a heading, wherein determining the heading includes determining the heading from an electronic compass signal;

analyzing the heading for user identified criteria to avoid; and

providing an alert signal when the heading contains user identified criteria.

22. (Canceled)

23. (Original) The method of claim 21, further including determining one or more positions using a global positioning system (GPS) signal, and recording a track log based

on the one or more positions, wherein determining the heading includes determining the

heading based on the track log.

24. (Original) The method of claim 21, further including performing a route calculation

algorithm to calculate a route to avoid the user identified criteria.

25. (Original) The method of claim 24, further including displaying the route to avoid the

user identified criteria.

26. (Original) The method of claim 21, further including;

determining a present location on the course based on a signal from a global positioning system (GPS); and

analyzing cartographic data for a predetermined area around the present location for user identified criteria to avoid.

- 27. (Original) The method of claim 26, further including providing an alert signal when the analyzed cartographic data for the predetermined area around the present location includes user identified criteria.
- 28. (Original) The method of claim 21, further including receiving user identified criteria selected from the group consisting of a predetermined grade, a swamp, a lake, a river, a gorge, a cliff, ice, composition of path surface, non-wheelchair accessible, ranking value, and a terrain difficulty level.

29. (Previously Presented) A computer readable medium having a set of computer

readable instructions for causing a device to perform a method that comprises:

calculating a course between two or more waypoints;

analyzing cartographic data for the course for user identified criteria to avoid;

providing an alert signal when the course contains user identified criteria;

determining a present location on the course based on a signal from a global

positioning system (GPS); and

analyzing cartographic data for a predetermined area around the present location

for user identified criteria to avoid, wherein a size of the predetermined area

is based on a speed.

30. (Original) The computer readable medium of claim 29, wherein calculating the

course includes performing a route calculation algorithm to calculate the course between

the two or more waypoints with a preference for avoiding user identified criteria.

31. (Original) The computer readable medium of claim 30, wherein performing the route

calculation algorithm includes calculating the course that avoids user identified criteria

between the two or more waypoints.

32. (Original) The computer readable medium of claim 30, wherein the method further

includes re-calculating the course to avoid the user identified criteria between the two or

more waypoints when the route calculation algorithm identifies one or more user identified

criteria between the two or more waypoints.

33. (Original) The computer readable medium of claim 29, wherein calculating the

course includes identifying one or more non-user waypoints on the course.

(Canceled)

35. (Previously Presented) The computer readable medium of claim 29, further including

providing an alert signal when the analyzed cartographic data for the predetermined area

around the present location includes user identified criteria.

36. (Original) The computer readable medium of claim 29, further including receiving

user identified criteria selected from the group consisting of a predetermined grade, a

swamp, a lake, a river, a gorge, a cliff, ice, composition of path surface, non-wheelchair

accessible, ranking value, and a terrain difficulty level.

37. (Previously Presented) A navigation device, comprising:

a processor;

an input operatively coupled to the processor, wherein the input receives two or

more waypoints;

a memory operatively coupled to the processor and the input, the memory having

cartographic data including user identified criteria, wherein the processor

operates on a route calculation algorithm to calculate a course between the

two or more waypoints based on the user identified criteria of the

cartographic data; and

a transceiver operably coupled to the processor to wirelessly transmit and receive

voice data signals with an electronic device.

38. (Original) The navigation device of claim 37, wherein the processor operates on the

route calculation algorithm to analyze cartographic data for the course to identify and avoid

user identified criteria in the course between the two or more waypoints.

39. (Original) The navigation device of claim 37, wherein the processor operates on the

route calculation algorithm to generate a signal for an alert signal when the course contains

user identified criteria

40. (Original) The navigation device of claim 37, wherein the processor operates on the

route calculation algorithm to avoid the user identified criteria by re-calculating the course

to avoid the user identified criteria between the two or more waypoints when the route

calculation algorithm identifies one or more user identified criteria between the two or more

waypoints.

41. (Original) The navigation device of claim 37, wherein the processor operates on the

route calculation algorithm to identify one or more non-user waypoints between the two or

more waypoints.

42. (Canceled)

43. (Previously Presented) The navigation device of claim 37, wherein the transceiver is

operable to transmit and to receive voice data signals on a Family Radio Service (FRS)

frequency.

44. (Previously Presented) A navigation device, comprising:

a processor;

a receiver for a global positioning system (GPS) operatively coupled to the

processor: and

a memory operatively coupled to the processor, the memory having cartographic

data including user identified criteria, wherein the processor determines a

present location value based on a signal received from the GPS, and

analyzes cartographic data for a predetermined area around the present

location value for user identified criteria to avoid, wherein a size and shape of

the predetermined area is based on a speed and heading.

45. (Original) The navigation device of claim 44, wherein the processor provides an alert

signal when the analyzed cartographic data for the predetermined area around the present

location value includes user identified criteria.

46. (Original) The navigation device of claim 44, wherein the processor operates on a

track log algorithm to record a track log based on a series of the present location value,

and operates on a heading algorithm to determine a heading based on the track log.

wherein the processor further operates on an analysis algorithm to analyzes cartographic

data of the heading for the user identified criteria, and wherein the processor generates a

signal for an alert signal when the heading contains user identified criteria.